



Caroline B. Shinkle (left), the student ambassador to MIT for the Organization of Economic Cooperation and Development, hosted a panel on Monday night, featuring (from left) Roger Porter, a professor at the Harvard Kennedy School; Carol Guthrie, head of the OECD Washington Center; and Baruch Perl, an official at the Boston Israeli consulate. Topics included the development of sustainable economic policies and the promotion of healthy competition between entities.

CHRISTOPHER A. MAYNOR—THE TECH

Boston Marathon bombing trial scheduled to begin next week

Appeals court yet to decide whether trial must be moved

By Drew Bent and Ray Wang

ASSOCIATE EDITORS

Opening statements are expected to commence next Wednesday in the trial of the accused Boston Marathon bomber, Dzhokhar Tsarnaev, according to a court official. Pending motions will be addressed in a hearing on Monday, and on Tuesday the defense and prosecution teams will

whittle down the 70 remaining potential jurors to the 18 who will be seated for opening statements.

Over the past eight weeks, over 256 potential jurors have been called in for questioning at the federal courthouse in Boston. Judge George O'Toole and attorneys for both parties have asked the jurors about everything from their views on the death penalty to their use of social media.

If the selected jury convicts Tsarnaev, it will also have to decide if he should receive the death penalty. Tsarnaev is being tried for 30 crimes related to the 2013 Boston Marathon bombings that killed three people and injured more than 250. He is also charged with the murder of MIT Police Officer Sean Collier.

Trial, Page 10

Was ring design under influence of fraternities? Chi Phi symbols suspected on 2016 ring

By Patricia Z. Dominguez

NEWS EDITOR

Every year, a group of MIT students is chosen by its respective class council to design MIT's iconic class ring, the Brass Rat, as well as organize the annual Ring Premiere and Ring Delivery ceremony. This prominent role exposes the group to criticism.

The past two ring committees, or RingComms, have each had ten out of their eleven members affiliated with fraternities and sororities. Additionally, in the past seven years, at least five RingComm chairs were members of Chi Phi, including last year's chair. This year's ring committee also included two members of that fraternity.

These facts have led students to speculate that fraternity symbols have been incorporated into the ring, particularly those of the Chi Phi fraternity.

In an interview with *The Tech*, an anonymous RingComm member pointed out some of the symbols

called into question on the Class of 2016 Brass Rat. The first was on the Hacker's Map, which features an engraved "XVI" for the Class of 2016, but the circle around the I makes it look like a Greek letter "phi." (The X is the "chi.") The second is located on the class shank. Here, the screws on the "T" in "MIT" are turned such that the letters "chi" and "phi" are also noticeable.

According to the Class of 2016 RingComm's website, the "XVI" symbols on the Hacker's Map are supposed to represent a compass rose, declination scale, and a flat screw head, and the screw on the class shank was made to look like an "X" to distinguish a subtle vertical "XVI."

The last symbol pointed out by the anonymous source was a twelve-pointed star etched onto the Boston skyline side of the bezel. Although the star signifies 2012, the year the Class of 2016 entered MIT, a twelve-

Ring Committee, Page 13

IRVING SINGER, 1925–2015

The life of a noted philosophy professor.

NEWS, p. 12

FAREWELL, MT. SIMMONS

It was good while it lasted.

NEWS, p. 11

FSILG REPORT CARD

Where do you rank? NEWS, p. 12

Museum of MochA

See page 9



ALEXANDER C. BOST—THE TECH
Mitali Kini '15 dances in "Girl with the Ratchet Earring."

Lawmaker asks whether MIT climate researcher took oil money

A prominent Democratic congressman is probing MIT about funding for professor emeritus Richard S. Lindzen, who is known for his skepticism of what he calls climate change "alarmism."

"My colleagues and I cannot

perform our duties if research or testimony provided to us is influenced by undisclosed financial relationships," wrote Rep. Raul M. Grijalva of Arizona, the ranking member of the House

Funding, Page 10

FAREWELL PAWNEE!

Looking back at seven seasons of Parks and Rec.

ARTS, p. 7



STUNNING ANIMATIONS

Song of the Sea mesmerizes.

ARTS, p. 8

SECTIONS

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SCHOOL OF HUMANITIES, ARTS & SOCIAL SCIENCES



Funding, from Page 1

Natural Resources Committee, in a letter to President L. Rafael Reif.

Grijalva sent similar letters to six other universities on Tuesday. He is asking for detailed records about funding and other compensation for researchers who have testified before lawmakers and challenged the scientific consensus on global warming.

Lindzen, who spent three decades in MIT's Department of Earth, Atmospheric, and Planetary Science, said Grijalva is "conducting a witch hunt in the tradition of McCarthyism."

Regarding funding for his own work, Lindzen said he was not worried at all about what might come to light: "[Grijalva] has no evidence, and there is no evidence because there's nothing to find."

"I think the hope is you throw a

lot of mud, and some of it'll stick, and maybe you'll get away with it," Lindzen said. "This is just extraordinarily poor behavior."

Grijalva's letter came just after revelations that Willie Soon, a scientist at the Harvard-Smithsonian Center for Astrophysics who also doubted the risks of climate change, failed to disclose sponsorship from the fossil-fuel industry in many of his papers.

An MIT spokesperson, Kimberly Allen, said on Wednesday that Reif was reviewing the congressman's request with MIT's provost and vice president for research. An assistant to Reif, Karla Casey, said that he had asked MIT's lawyers to look into the request.

"I do hope that, on a matter of principle, that President Reif refuses this request," Lindzen said. "It has no legal basis, and once he opens that up, he's open to harassment."

Patent, from Page 1

is the single largest user of devices made by Micron and its subsidiaries that use the patented process.

MIT is seeking compensatory damages and a formal declaration from Apple and Micron that the patent was violated, in addition to royalties on all Apple products that used the patented laser cutting process, according to GigaOM.

MIT's actions echo a series

of lawsuits filed by Boston University against 25 companies, including Apple and HP, due to patent infringement of a thin film technology used in the manufacture of blue LEDs.

Since 2000, MIT has been involved in 42 different patent litigation campaigns, including this lawsuit, according to RPX Corporation, which provides patent risk management services. MIT was the plaintiff in 32 of the suits.

—Rohan Banerjee

Policy bans roof deck use at parties FSILGs seek "long-term solution"

FSILG, from Page 1

alumni receptions and special house events as well as the use of social media when advertising events and inviting guests. The policy states: "No more than 250 invitations may be extended. For purposes of this policy, an invitation is defined as direct advertising, through social media, by a member of a FSILG. Advertising includes, but not limited to written invitations, e-mail, or other forms of publicity."

This most recent rendering of the social policy differed significantly from the one issued in August 2014, right before LCA incident

that occurred during rush week. In last year's policy, the maximum possible assembly number for any house was 249 people. It also did not address the use of roof decks or methods of extending invitations to guests via social media outlets.

"The FSILG Social Policy is a working document and we hope to continuously update it to represent the views of the community," Oppenheim said. "One future goal of the social policy committee, comprised of representatives of the IFC, Panhel, the LGC, the FSILG office, the AILG, and the DSL, is to come up with a long-term solution for the assembly numbers in our communities."

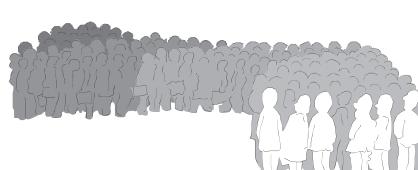
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Tsarnaev jury to be seated far behind the original schedule O'Toole says the trial could extend into this June

Trial, from Page 1

Although jury selection started on Jan. 5, with opening statements slated for Jan. 26, the process was drawn out by snow days and other cancellations, including an unexpected one this Monday for undisclosed reasons. A total of eight days of jury selection have been cancelled so far, and the court will also take this Thursday and Friday off to deal with pretrial affairs.

Last Thursday, the United States Court of Appeals for the First Circuit heard the defense team argue for the trial's location to be changed, which government prosecutors opposed. The defense had filed repeated change-of-venue motions with the district court already, claiming that it would be impossible to seat an impartial jury in the city of Boston, which was heavily affected by the bombings. After O'Toole rejected all of the motions, the defense appealed to the higher court.

The appeals court initially ruled against the defense's motion to move the trial to another city. However, the sole dissenting judge of the three, Juan R. Torruella, argued that the extent to which Boston was victimized by the bombings may justify moving the trial elsewhere. It was at Torruella's request that the appeals court held the hearing last Thursday.

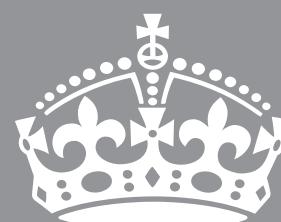
During the hearing, the defense continued to push for a change of venue, while the prosecution maintained that the time elapsed since the bombings is enough to now hold the trial without media bias.

The appeals court asked whether it was the right time for the defense to be making the appeal. Usually, an appeal like this would happen once the trial is completed, but Tsarnaev's attorneys argued that the judicial system would be harmed by going forward with what they believe is a biased jury.

The appeals court has yet to release a ruling. If the appeals court were to accept the appeal, which is unlikely considering the previous 2-1 ruling against it by them in the past, then the trial would have to be moved to another state.

The Boston Bar Association (BBA), the oldest bar association in the United States, has also expressed dissatisfaction with the case, although for a different reason. On Wednesday, it asked the Department of Justice not seek the death penalty. According to Boston.com, BBA president Julia Huston cited financial strain, disproportionate impact on minority groups, and the inevitability of wrongful convictions as reasons to seek life imprisonment should Tsarnaev be found guilty.

Once opening statements begin, the trial is expected to continue for months. O'Toole offhandedly mentioned to a potential juror Wednesday that it could extend into June.



KEEP
CALM
AND
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THE
TECH

Police tell students to get off Mt. Simmons

Students scaling the mountainous pile of snow behind Simmons Hall in past weeks were confronted by police officers and told to leave. Some were reportedly threatened with arrest if they did not comply.

By multiple accounts, police told climbers to get off the nearly five-story mountain. In an email to *The Tech*, Jeremy Warnick, a spokesman for the Cambridge Police, cited public safety as their chief concern, "trespassing aside."

"Falling from any significantly large snow mountain could lead to an injury or something more severe," Warnick said.

Students nevertheless continued to entertain themselves on the snow pile, whether to climb, sled, or even snowboard down what was dubbed "Mt. Simmons." Some were also careful to avoid getting caught.

"My friends and I climbed it in swimsuits ... When we heard that the police were on their way, we took some hasty but necessary selfies and scrambled off," Wendi Gurazio '18 said. "I don't think any of us has ever been arrested, but I'm certain that none of us wanted our first time to be in bikinis."

MIT students aren't the only ones seemingly fixated on the

mountain. *The Boston Globe* published an article focusing on Dheera Venkatraman's (PhD '15) experience trekking the mountain. An avid winter hiker, he forgave a visit to the White Mountains and visited Mt. Simmons instead. A Buzzfeed post with over 2 million views also featured Mt. Simmons.

Over the past week, excavators and trucks have been spotted removing snow from the mountain and taking it elsewhere. The previously towering snow pile now stands at only around two stories tall.

—William A. Rodriguez

GPAs released for FSILGs

The Division for Student Life has released a grade report for fraternities, sororities, and independent living groups (FSILGs). In the Fall 2014 semester, the average GPA among members of independent living groups was 4.45. The average GPA among sorority sisters was 4.43. The average GPA for fraternities was 4.38.

Student House's average GPA

fell from 1st place last spring at 4.70 to 15th place last fall at 4.45. In the same time, WILG fell from 4th place to 30th place, dropping 0.30 GPA points; Theta Xi rose from 25th place to 9th place, gaining 0.14 points.

The average GPA for all FSILGs was 4.42. MIT has 36 FSILGs.

—Alexandra Delmore

IN SHORT

Add date is March 6. This is the last day to add subjects to registration. Students adding or changing class registrations after add date will face a \$100 late fee to petition for further changes.

Laptop tagging will take place in Lobby 10 from 11 a.m. to 1:15 p.m. next Wednesday. The MIT Police will tag laptops for \$10 each, payable in cash or by MIT cost object.

The final exam schedule for the

spring semester has been published online at <http://finals.mit.edu>.

ESP Security is looking for volunteers to help at Spark, the weekend of Mar. 14. Sign up to volunteer at <https://esp.mit.edu/security>.

The Red Cross blood drive in La Sala de Puerto Rico will continue through the end of this week, from 1 p.m. to 6 p.m.

Send news information and tips to news@tech.mit.edu.

Even The Tech needs tech support and we're looking for some. join@tech.mit.edu

Join us for an informational meeting on The Future of Late-Night Service



We invite you to attend an informational meeting to share your comments about the future of late-night service.

- This event is accessible to people with disabilities and individuals with limited English proficiency. If you need a reasonable accommodation (such as American Sign Language Interpreters, assistive listening devices, handouts in alternate formats, etc.) and/or language assistance (such as translated documents or an interpreter) to fully participate, please contact MBTA Marketing at (617) 222-5740 or email latenightservice@mbta.com at least 7 days prior to the event. Such services are provided free of charge.
- Written comments will also be accepted through Wednesday, March 11, 2015, and should be mailed to: MBTA, 10 Park Plaza, Room 2310, Boston, MA 02116, Attention: Late-Night Service Committee, or electronically at the MBTA website mbta.com, by email at latenightservice@mbta.com, or by phone at (617) 222-3200, TTY (617) 222-5146.

MEETING LOCATIONS

Monday, March 2

6 p.m.–8 p.m.
District Hall
Assembly Space
75 Northern Ave.
Boston, MA 02210

Wednesday, March 4

5:30 p.m.–7:30 p.m.
State Transportation
Building
Conf. Rooms 1, 2, 3
10 Park Plaza
Boston, MA 02116

Monday, March 9

5:30 p.m.–7:30 p.m.
Sheraton Commander
Hotel
Mount Vernon Room
16 Garden Street
Cambridge, MA 02138

Tuesday, March 10

3:30 p.m.–5:30 p.m.
The Inn at Longwood
Medical
Longwood Hall
342 Longwood Ave.
Boston, MA 02115

Wednesday, March 11

3 p.m.–5 p.m.
State Transportation
Building
Transportation Library
10 Park Plaza
Boston, MA 02116

Twitter Town Hall

We also invite you to participate in a Twitter Town Hall on Monday, March 2, from 12:00 p.m.–1:00 p.m. by using the hashtag #latenightservice

If this information is needed in another language, please contact the MBTA Title VI Specialist at 617-222-3200. Caso esta informação seja necessária em outro idioma, favor contar o Especialista em Título VI do MBTA pelo telefone 617-222-3200.

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Si yon moun vle genyen enfòmasyon sa yo nan yon lòt lang, tanpri kontakte Espesyalis MBTA Title VI la nan nimewo 617-222-3200.

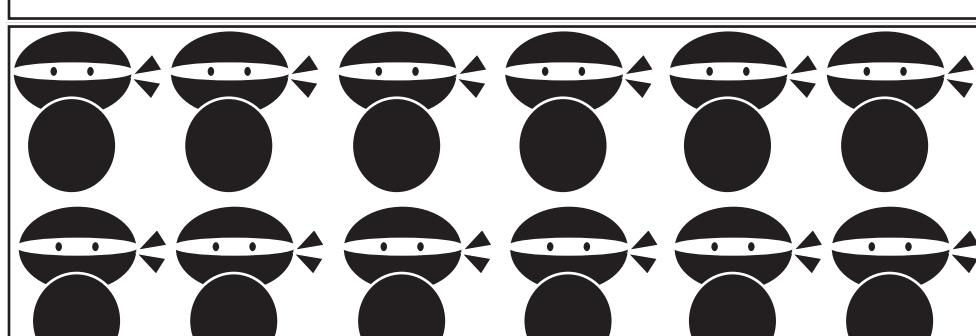
Nếu quý vị cần thông tin này bằng tiếng khác, vui lòng liên hệ Chuyên viên Luật VI của MBTA theo số điện thoại 617-222-3200.

Please visit mbta.com for a complete list of informational meetings.



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OBITUARY

Irving Singer, philosophy professor and author of 21 books on diverse topics, dies at the age of 89

Singer spent 55 years studying at the Institute, 'The Nature of Love' among his works

Sam Roberts
THE NEW YORK TIMES

Stung by family members urging him to be more affectionate, Irving Singer, a philosophy professor, spent years researching and writing a 1,300-page, three-volume examination of the subject titled "The Nature of Love."

"This, like so many philosophical works, began as an attempt to understand my own inadequacies," he told The New York Times in 1987. "Everyone in my family persuaded me that I ought to be more loving, which troubled me. So like most philosophers, I dealt with the criticism by constructing a theory and a philosophy which enabled me to dismiss their ideas."

For 65 years, as a prolific writer and teacher, nearly 55 of them at the Massachusetts Institute of Technology, Singer, who died Feb. 1 at 89, mined the works of Marcel Proust, George Santayana, John Stuart Mill, John Dewey and others, unearthing, as he once wrote, "imaginative and

possibly genuine insights into the nature of human experience."

He did the same sort of literary and philosophical spade work in producing his love trilogy - a "majestic study," as Anatole Broyard wrote in The New York Times Book Review in 1986.

The next year, the writer and psychotherapist Michael Vincent Miller, reviewing the trilogy's third volume, described Singer as "a rare bird on the contemporary scene, a philosopher preoccupied with literature and steeped in Platonism, two traditions that have always treated love seriously."

"He not only readily confesses his own romanticism; he steadfastly refuses to give it up," Miller wrote in The Times. "For he sees romantic love as a 'saving remnant, a viable and realistic conception of what is humanly possible.' After passing through some bleak modern stretches, he emerges still an optimist about romance, even in marriage. He regards love as an imaginative act, an almost spontaneous

bestowing of value on another, but he wants to root it in the sexiness of biology. Neither idealist nor materialist, Mr. Singer puts himself forward as a pluralist of love."

Singer was the author of 21 books on topics as diverse as creativity, morality, aesthetics, literature, music and film. His last one, "Modes of Creativity: Philosophical Perspectives," was published in 2011. He retired from MIT as a professor emeritus two years later, but was working on yet another book, "Creativity in the Brain."

He was born in Brooklyn, New York, on Dec. 24, 1925, the son of Isadore and Nettie Stromer Singer, immigrants from Austria-Hungary who owned a grocery store on Coney Island.

After graduating from Townsend Harris High School in Manhattan at 15, he enrolled in Brooklyn College, then served in the Army, which assigned him to write a book, "History of the 210th Field Artillery Group," his first. He later collected his letters home to his brother in an unpub-

lished anthology, which he called "Memories of World War II."

After the war, studied at Biarritz American University in France and completed his bachelor's degree under the GI Bill at Harvard, where he graduated summa cum laude in 1948.

The next year he married Josephine Fisk, who would become an opera singer and what he called a semicollaborator on his books.

"I don't write in a library; in fact, I don't even write at a desk anymore," he explained. "I write in bed, where I am comfortable, and dictate to my wife. She often disagrees with what I say, and we'll discuss it, and sometimes I incorporate her ideas."

Singer's wife died last year. His death, in Brighton, Massachusetts, was confirmed by his daughter, Emily Singer. He is also survived by two other daughters, Anne Seinfeld and Margaret Singer; a son, Ben; and four grandchildren.

Singer earned a doctorate at Harvard and joined the MIT faculty full time in 1959 after teaching at

Harvard, Cornell, the University of Michigan and Johns Hopkins. He was awarded a Fulbright research scholar grant, a Guggenheim fellowship and a Rockefeller Foundation grant.

Constructing intellectual histories rather than highbrow versions of the Kama Sutra, Singer never tired of exploring whether romantic love was a recent invention and placing it in philosophical context. In a preface to another trilogy, "Meaning in Life," he wrote:

"I envision the good life in its totality as including the love of persons, things and ideals so intricately intermeshed that the meaning in one contributes to the meaningfulness of the other two. That eventuates in the state of happiness everyone desires."

Describing himself as a "reconstructed romantic," Singer said, "I don't believe in romantic love in that it has to be sweet and painless." The best one can expect, he said, is "meaningfulness with moments of real happiness."

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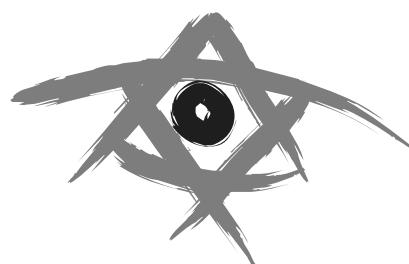
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```
from new_skills import *
def learnMarketableJobSkills():
    return linux, OSX, javascript, applescript, perl, python, PHP
if self.interest == True:
    print "E-mail join@tech.mit.edu"
-----F1 joinTechno.py -----
```

(Python)--L1--Top-----

CAC and SAO close balconies during Premiere

Former ring committees invited on the condition that they RSVP, be 'well behaved'

Ring Committee, from Page 1

pointed star is also a symbol of Chi Phi.

Patrick Lowe '16, last year's Ring Comm chair, wrote in an email to *The Tech* that the only meanings behind the symbols are what's mentioned in the material published by the Class of 2016 ring committee on its website.

This year's RingComm said they attempted to make sure that there were no symbols with ulterior meanings on the Class of 2017 Brass Rat. "Going into this committee, I was very aware about past committees and the questionable symbols they put on the ring," said Anthony Occidentale '17, the chair of this year's committee, in an interview with *The Tech*. "When symbols or features were proposed, we ensured the importance of them to members in our class firstmost and fact-checked to make sure it didn't stand for any type of second meaning."

With regard to the twelve-point-

ed star, which had been one of the options suggested for this year's ring design, Occidentale added, "We definitely wanted a shooting star on our ring but had to shoot down some requests that would be labeled [as standing] for something else. The thirteen-pointed star we ended up with was the perfect fit. The number 13 is thought to be an unlucky number, yet a shooting star is said to be extremely lucky. We all luckily entered MIT in 2013 and this paradoxical shooting star overall seemed to fit a lot of things associated with MIT."

A MakeMIT symbol was also said to be associated with a member on this year's RingComm. "That had no bearing on the fact we put a subtle reference to their logo on the ring," said Occidentale. "The class ring represents our experience here and significant events that occurred during our time here ... MakeMIT is the first ever hardware hackathon here and was started up due to the efforts of people in our class and

their passion for hardware hacking. Linking the fact that a committee member is a part of MakeMIT, and that it's the only reason it is on the ring, is like linking the fact that a member is from East Campus, and that's the only reason a roller coaster is on the ring."

Aspects of the Class of 2017 Ring Premiere were also changed from previous years. According to Occidentale, there was an established tradition that members of past ring committees would attend premieres. In practice, this evolved into "a drinking fest where members would show up drunk, drink in Kresge, and boo the committee on stage while chanting that their ring was better," wrote Occidentale. He stated that he wished for this year's premiere to go differently.

As a result, the Class of 2017 RingComm ultimately decided to allow past ring committees to RSVP to this year's premiere "on the condition that they [would be] well behaved," said Occidentale. He dis-

closed that last year's RingComm chair did not RSVP, but was still granted entry.

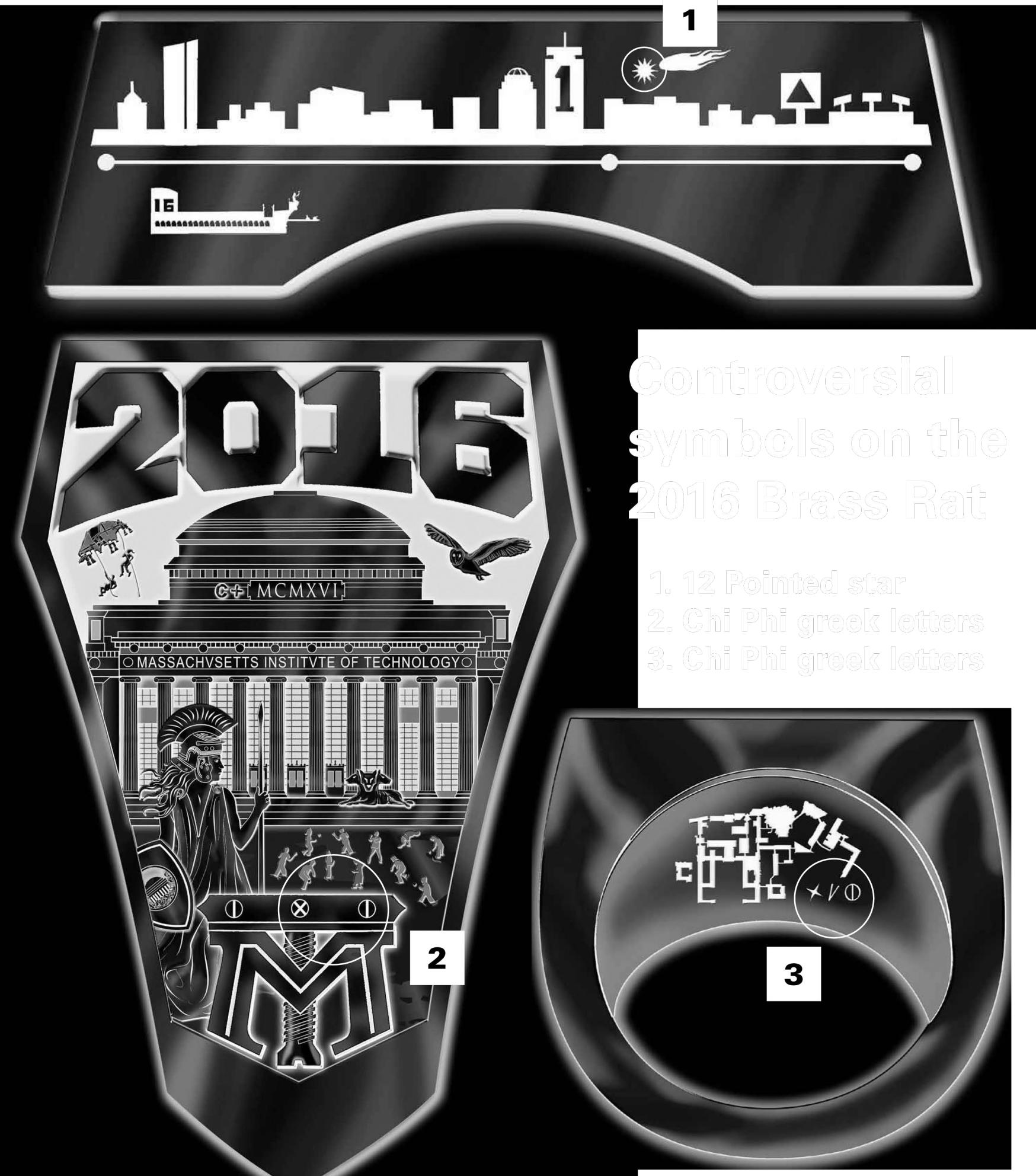
The Campus Activities Complex (CAC) and Student Activities Office (SAO) took action this year by closing off the choir balcony in Kresge Auditorium; their reasoning for the decision was that "past Ring Committees have utilized this space for Premiere events, however, in recent years, some student attendees have been found with alcohol in that space, which poses a significant safety risk for those individuals, as that space is raised above the auditorium floor and has a low railing," according to an email to *The Tech* from Joel Pettigrew, a program coordinator in the SAO.

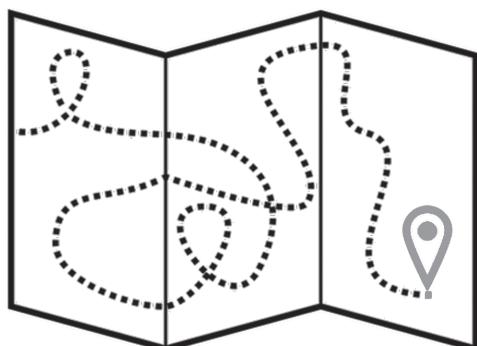
According to Emily Van Bellegem '17, vice-chair of this year's committee, there are currently attempts being made to change current premiere traditions. "It has been thoroughly discussed with the 2017 Ring Committee that if we are fortunate enough to be invited

to the 2018 Ring Premiere we will treat their event with the utmost respect," she said in an email to *The Tech*. "We believe it is important to remember that this is their moment and to honor them, their class, and the ring they have worked so hard to present."

This year's RingComm also made a conscious effort to ensure that every member of the Class of 2017 received a ring. "That's the goal. I'm the treasurer, and my goal is to get 100 percent participation [in ring sales]," said Antoine Nasr '17. "At graduation, I want to be able to see everyone in my class turn their ring from the beaver facing towards them to the beaver facing away, as per tradition." This year's RingComm provided subsidies where their budget allowed, as past ring committees did, as well as a RingComm financial aid scholarship.

This year's Ring Delivery is scheduled to take place on April 22, at the Institute of Contemporary Art.





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GETTING URGH GOALS

REVOLVING FUNDS

FOSSIL FUEL USE

PRICING CARBON

REUSABLE

RECLAIM

Solution to Saturday Stumper from page 4

A	F	C	W	E	S	T	R	A	G	B	A	G	S
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X	E	D	F	O	N	D	S	E	E	S	T		
	F	O	R	A	R	F	S	P	S	A			
A	S	H	E	R	I	B	A	R	O	W	E	S	
C	O	O	L	C	A	T	M	A	Q	U	I	R	
T	A	L	E	S	T	I	N	A	S	T	I	R	
S	P	A	S	K	Y								

Solution to Cheese, Please from page 5

S	T	A	B		B	O	P	S	S	P	O	R	E
A	W	R	Y			E	P	I	C	O	R	G	N
T	O	T				M	E	S	A	S	O	L	I
A	M	E	R			R	E	S	A	S	O	L	I
M	A	S	O	N									
A	S	O	N	E									
S	O	N	E	T									

Solution to 5.12

from page 5

1	3	7	5	9	6	4	2	8					
5	2	9	3	8	4	1	6	7					
4	6	8	1	2	7	9	3	5					
3	7	6	9	4	8	5	1	2					
8	9	5	2	7	1	6	4	3					
2	4	1	6	5	3	7	8	9					
7	1	4	8	3	5	2	9	6					
9	5	3	4	6	2	8	7	1					
6	8	2	7	1	9	3	5	4					

Solution to 7.013

from page 5

1	6	4	5	2	3								
5	4	2	3	6	1								
4	3	1	2	5	6								
3	2	6	1	4	5								
6	5	3	4	1	2								
2	1	5	6	3	4								

Solution to 18.03

from page 5

4	9	1	5	7	3	2	8	6					
6	3	7	8	1	2	9	5	4					
8	5	2	9	6	4	3	1	7					
3	7	9	1	4	5	6	2	8					
2	6	5	3	8	7	4	9	1					
1	4	8	2	9	6	5	7	3					
5	2	4	7	3	1	8	6	9					
7	8	3	6	2	9	1	4	5					
9	1	6	4	5	8	7	3	2					

Solution to 7.05

from page 5

1	6	3	2	4	5								
3</													